



1

SEQUENCE LISTING

RECEIVED

SEP 03 2003

TECH CENTER 1600/2900

Van Eyk, Jennifer E.  
Iscoe, Steven D  
Simpson, Jeremy A

<120> Methods of Diagnosing Muscle Damage

<130> 1997-023-02US

<140> 09/115,589

<141> 1998-07-15

<150> 60/052,697

<151> 1997-07-16

<160> 19

<170> PatentIn Ver. 2.1

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<213> Unknown

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<223> Myosin light chain 1

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<222> (1)

<223> May be any amino acid.

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<223> May be any amino acid.

<220>

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<222> (7)

<223> May be either Pro or Ala.

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<223> May be Arg or Leu.

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<220>

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<300>

<303> FEBS Lett.

<304> 270

<305> 1-2

<306> 57-61

<307> 1990-09-17

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His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln Leu  
35 40 45

Lys Thr Leu Leu Leu Gln Ile Ala Lys Gln Glu Leu Glu Arg Glu Ala  
50 55 60

Glu Glu Arg Arg Gly Glu Lys Gly Arg Ala Leu Ser Thr Arg Cys Gln  
65 70 75 80

Pro Leu Glu Leu Ala Gly Leu Gly Phe Ala Glu Leu Gln Asp Leu Cys  
85 90 95

Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr Asp  
100 105 110

Ile Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu Thr  
115 120 125

Gln Lys Ile Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu Arg  
130 135 140

Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly Ala  
145 150 155 160

Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val Lys  
165 170 175

Lys Glu Asp Thr Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg Lys  
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Asn Ile Asp Ala Leu Ser Gly Met Glu Gly Arg Lys Lys Lys Phe Glu  
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Ser

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 <307> Jul-1990

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 20 25 30

His Glu Glu Arg Glu Ala Glu Lys Val Arg Tyr Leu Ala Glu Arg Ile  
 35 40 45

Pro Thr Leu Gln Thr Arg Gly Leu Ser Leu Ser Ala Leu Gln Asp Leu  
 50 55 60

Cys Arg Glu Leu His Ala Lys Val Glu Val Val Asp Glu Glu Arg Tyr  
 65 70 75 80

Asp Ile Glu Ala Lys Cys Leu His Asn Thr Arg Glu Ile Lys Asp Leu  
 85 90 95

Lys Leu Lys Val Met Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu  
 100 105 110

Arg Arg Val Arg Val Ser Ala Asp Ala Met Leu Arg Ala Leu Leu Gly  
 115 120 125

Ser Lys His Lys Val Ser Met Asp Leu Arg Ala Asn Leu Lys Ser Val  
 130 135 140

Lys Lys Glu Asp Thr Glu Lys Glu Arg Pro Val Glu Val Gly Asp Trp  
 145 150 155 160

Arg Lys Asn Val Glu Ala Met Ser Gly Met Glu Gly Arg Lys Lys Met  
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Phe Asp Ala Ala Lys Ser Pro Thr Ser Gln  
 180 185

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 <303> Biochim. Biophys. Acta  
 <304> 1217  
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 <307> 1994-04-06

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 Glu Ser Arg Arg Glu Ala Glu Lys Gln Asn Tyr Leu Ala Glu His Cys  
 35 40 45  
 Pro Pro Leu His Ile Pro Gly Ser Met Ser Glu Val Gln Glu Leu Cys  
 50 55 60  
 Lys Gln Leu His Ala Lys Ile Asp Ala Ala Glu Glu Lys Tyr Asp  
 65 70 75 80  
 Met Glu Val Arg Val Gln Lys Thr Ser Lys Glu Leu Glu Asp Met Asn  
 85 90 95  
 Gln Lys Leu Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu Arg  
 100 105 110  
 Arg Val Arg Met Ser Ala Asp Ala Met Leu Lys Ala Leu Leu Gly Ser  
 115 120 125  
 Lys His Lys Val Cys Met Asp Leu Arg Ala Asn Leu Lys Gln Val Lys  
 130 135 140  
 Lys Glu Asp Thr Glu Lys Glu Arg Asp Leu Arg Asp Val Gly Asp Trp  
 145 150 155 160  
 Arg Lys Asn Ile Glu Glu Lys Ser Gly Met Glu Gly Arg Lys Lys Met  
 165 170 175  
 Phe Glu Ser Glu Ser

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 <306> 707-712  
 <307> 1991-01-22

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                     20                    25                    30  
 Pro His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln  
                     35                    40                    45  
 Leu Lys Thr Leu Met Leu Gln Ile Ala Lys Gln Glu Met Glu Arg Glu  
     50                    55                    60  
 Ala Glu Glu Arg Arg Gly Glu Lys Gly Arg Val Leu Ser Thr Arg Cys  
     65                    70                    75                    80  
 Gln Pro Leu Val Leu Asp Gly Leu Gly Phe Glu Glu Leu Gln Asp Leu  
                     85                    90                    95  
 Cys Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr  
                     100                    105                    110  
 Asp Val Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu  
     115                    120                    125  
 Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu  
     130                    135                    140  
 Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly  
     145                    150                    155                    160  
 Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val  
     165                    170                    175  
 Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg  
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195

200

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Glu Gly  
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<304> 264  
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<306> 14327-14333  
<307> 1989-08-25

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20 25 30  
His Glu Glu Arg Glu Ala Glu Lys Val Arg Tyr Leu Ser Glu Arg Ile  
35 40 45  
Pro Thr Leu Gln Thr Arg Gly Leu Ser Leu Ser Ala Leu Gln Asp Leu  
50 55 60  
Cys Arg Glu Leu His Ala Lys Val Glu Val Val Asp Glu Glu Arg Tyr  
65 70 75 80  
Asp Ile Glu Ala Lys Cys Leu His Asn Thr Arg Glu Ile Lys Asp Leu  
85 90 95  
Lys Leu Lys Val Leu Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu  
100 105 110  
Arg Arg Val Arg Val Ser Ala Asp Ala Met Leu Arg Ala Leu Leu Gly  
115 120 125  
Ser Lys His Lys Val Ser Met Asp Leu Arg Ala Asn Leu Lys Ser Val  
130 135 140  
Lys Lys Glu Asp Thr Glu Lys Glu Arg Pro Val Glu Val Gly Asp Trp  
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Phe Asp Ala Ala Lys Ser Pro Thr Leu Gln



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185

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 <309> 1992-08-01

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                   20                  25                  30  
 Glu Ser Arg Arg Glu Ser Glu Lys Gln Asn Tyr Leu Ser Glu His Cys  
                   35                  40                  45  
 Pro Pro Leu His Ile Pro Gly Ser Met Ser Glu Val Gln Glu Leu Cys  
           50                  55                  60  
 Lys Gln Leu His Ala Lys Ile Asp Ala Ala Glu Glu Lys Tyr Asp  
           65                  70                  75                  80  
 Met Glu Val Lys Val Gln Lys Ser Ser Lys Glu Leu Glu Asp Met Asn  
                   85                  90                  95  
 Gln Lys Leu Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu Arg  
                   100                  105                  110  
 Arg Val Arg Met Ser Ala Asp Ala Met Leu Lys Ala Leu Leu Gly Ser  
           115                  120                  125  
 Lys His Lys Val Cys Met Asp Leu Arg Ala Asn Leu Lys Gln Val Lys  
           130                  135                  140  
 Lys Glu Asp Thr Glu Lys Glu Arg Asp Leu Arg Asp Val Gly Asp Trp  
           145                  150                  155                  160  
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<304> 328

<305> 1-2

<306> 139-144

<307> 1993-08-09

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Ala Glu Ala Glu Thr Glu Glu Thr Arg Ala Glu Glu Asp Glu Glu Glu
      35              40              45

Glu Glu Ala Lys Glu Ala Glu Asp Gly Pro Met Glu Glu Ser Lys Pro
      50              55              60

Lys Pro Arg Ser Phe Met Pro Asn Leu Val Pro Pro Lys Ile Pro Asp
      65              70              75              80

Gly Glu Arg Val Asp Phe Asp Asp Ile His Arg Lys Arg Met Glu Lys
      85              90              95

Asp Leu Asn Glu Leu Gln Ala Leu Ile Glu Ala His Phe Glu Asn Arg
      100             105             110

Lys Lys Glu Glu Glu Glu Leu Val Ser Leu Lys Asp Arg Ile Glu Arg
      115             120             125

Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile Arg Asn Glu Arg Glu
      130             135             140

Lys Glu Arg Gln Asn Arg Leu Ala Glu Glu Arg Ala Arg Arg Glu Glu
      145             150             155             160

Glu Glu Asn Arg Arg Lys Ala Glu Asp Glu Ala Arg Lys Lys Lys Ala
      165             170             175

Leu Ser Asn Met Met His Phe Gly Gly Tyr Ile Gln Lys Gln Ala Gln
      180             185             190

Thr Glu Arg Lys Ser Gly Lys Arg Gln Thr Glu Arg Glu Lys Lys Lys
      195             200             205

Lys Ile Leu Ala Glu Arg Arg Lys Val Leu Ala Ile Asp His Leu Asn
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<303> J. Biol. Chem.  
<304> 262  
<305> 33  
<306> 16122-16126  
<307> 1987-11-25

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Glu	Pro	Glu	Glu	Glu	Arg	Pro	Lys	Pro	Ser	Arg	Pro	Val	Val	Pro	Pro	
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Leu	Ile	Pro	Pro	Lys	Ile	Pro	Glu	Gly	Glu	Arg	Val	Asp	Phe	Asp	Asp	
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Ala	Leu	Lys	Glu	Arg	Ile	Glu	Arg	Arg	Arg	Ser	Glu	Arg	Ala	Glu	Gln	
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Gln	Arg	Phe	Arg	Thr	Glu	Lys	Glu	Arg	Glu	Arg	Gln	Ala	Lys	Leu	Ala	
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Glu	Glu	Lys	Met	Arg	Lys	Glu	Glu	Glu	Glu	Ala	Lys	Lys	Arg	Ala	Glu	
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145					150					155					160				
Gly	Gly	Tyr	Leu	Val	Lys	Ala	Glu	Gln	Lys	Arg	Gly	Lys	Arg	Gln	Thr				
165					170					175									
Gly	Arg	Glu	Met	Lys	Val	Arg	Ile	Leu	Ser	Glu	Arg	Lys	Lys	Pro	Leu				
180					185					190									
Asp	Ile	Asp	Tyr	Met	Gly	Glu	Glu	Gln	Leu	Arg	Ala	Arg	Ser	Ala	Trp				
195					200					205									
Leu	Pro	Pro	Ser	Gln	Pro	Ser	Cys	Pro	Ala	Arg	Glu	Lys	Ala	Gln	Glu				
210					215					220									
Leu	Ser	Asp	Trp	Ile	His	Gln	Leu	Glu	Ser	Glu	Lys	Phe	Asp	Leu	Met				
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Ala	Lys	Leu	Lys	Gln	Gln	Lys	Tyr	Glu	Ile	Asn	Val	Leu	Tyr	Asn	Arg				
245					250					255									
Ile	Ser	His	Ala	Gln	Lys	Phe	Arg	Lys	Gly	Ala	Gly	Lys	Gly	Arg	Val				
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<300>
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<304> 13
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<306> 217-233
<307> MAR-1994
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      35                40                45

Glu Gly Glu Lys Val Asp Phe Asp Asp Ile Gln Lys Lys Arg Gln Asn
      50                55                60

Lys Asp Leu Met Glu Leu Gln Ala Leu Ile Asp Ser His Phe Glu Ala

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Arg	Lys	Lys	Glu	Glu	Glu	Glu	Leu	Val	Ala	Leu	Lys	Glu	Arg	Ile	Glu
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Glu	Arg	Glu	Arg	Gln	Asn	Arg	Leu	Ala	Glu	Glu	Lys	Ala	Arg	Arg	Glu
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Glu	Glu	Asp	Ala	Lys	Arg	Arg	Ala	Glu	Asp	Asp	Leu	Lys	Lys	Lys	Lys
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Ala	Leu	Ser	Ser	Met	Gly	Ala	Asn	Tyr	Ser	Ser	Tyr	Leu	Ala	Lys	Ala
				145				150				155			
Asp	Gln	Lys	Arg	Gly	Lys	Lys	Gln	Thr	Ala	Arg	Glu	Met	Lys	Lys	Lys
				165				170				175			
Ile	Leu	Ala	Glu	Arg	Arg	Lys	Pro	Leu	Asn	Ile	Asp	His	Leu	Gly	Glu
				180				185				190			
Asp	Lys	Leu	Arg	Asp	Lys	Ala	Lys	Glu	Leu	Trp	Glu	Thr	Leu	His	Gln
				195				200				205			
Leu	Glu	Ile	Asp	Lys	Phe	Glu	Phe	Gly	Glu	Lys	Leu	Lys	Arg	Gln	Lys
				210				215				220			
Tyr	Asp	Ile	Thr	Thr	Leu	Arg	Ser	Arg	Ile	Asp	Gln	Ala	Gln	Lys	His
				225				230				235			
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<304> 264  
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<306> 14471-14477  
<307> 1989-08-25

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Ala Glu Asp Gly Pro Val Glu Asp Ser Lys Pro Lys Pro Ser Arg Leu	65	70	75
Phe Met Pro Asn Leu Val Pro Pro Lys Ile Pro Asp Gly Glu Arg Val	85	90	95
Asp Phe Asp Asp Ile His Arg Lys Arg Met Glu Lys Asp Leu Asn Glu	100	105	110
Leu Gln Thr Leu Ile Glu Ala His Phe Glu Asn Arg Lys Lys Glu Glu	115	120	125
Glu Glu Leu Ile Ser Leu Lys Asp Arg Ile Glu Lys Arg Arg Ala Glu	130	135	140
Arg Ala Glu Gln Gln Arg Ile Arg Asn Glu Arg Glu Lys Glu Arg Gln	145	150	155
Asn Arg Leu Ala Glu Glu Arg Ala Arg Arg Glu Glu Glu Glu Asn Arg	165	170	175
Arg Lys Ala Glu Asp Glu Ala Arg Lys Lys Lys Ala Leu Ser Asn Met	180	185	190
Met His Phe Gly Gly Tyr Ile Gln Lys Ala Gln Thr Glu Arg Lys Ser	195	200	205
Gly Lys Arg Gln Thr Glu Arg Glu Lys Lys Lys Lys Ile Leu Ala Glu	210	215	220
Arg Arg Lys Val Leu Ala Ile Asp His Leu Asn Glu Asp Gln Leu Arg	225	230	235
Glu Lys Ala Lys Glu Leu Trp Gln Ser Ile His Asn Leu Glu Ala Glu	245	250	255
Lys Phe Asp Leu Gln Glu Lys Phe Lys Gln Gln Lys Tyr Glu Ile Asn	260	265	270
Val Leu Arg Asn Arg Ile Asn Asp Asn Gln Lys Val Ser Lys Thr Arg	275	280	285
Gly Lys Ala Lys Val Thr Gly Arg Trp Lys	290	295	

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&lt;211&gt; 258

&lt;212&gt; PRT

&lt;213&gt; Unknown

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 <303> J. Mol. Biol.  
 <304> 188  
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 <307> 1986-04-05  
  
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 35 40 45  
  
 Pro Glu Gly Glu Lys Val Asp Phe Asp Asp Ile Gln Lys Lys Arg Gln  
 50 55 60  
  
 Asn Lys Asp Leu Met Glu Leu Gln Ala Leu Ile Asp Ser His Phe Glu  
 65 70 75 80  
  
 Ala Arg Lys Lys Glu Glu Glu Glu Leu Ile Ala Leu Lys Glu Arg Ile  
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 Glu Lys Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile Arg Ala Glu  
 100 105 110  
  
 Lys Glu Arg Glu Arg Gln Asn Arg Leu Ala Glu Glu Lys Ala Arg Arg  
 115 120 125  
  
 Glu Glu Glu Asp Ala Lys Arg Arg Ala Glu Asp Asp Leu Lys Lys Lys  
 130 135 140  
  
 Lys Ala Leu Ser Ser Met Gly Ala Asn Tyr Ser Ser Tyr Leu Ala Lys  
 145 150 155 160  
  
 Ala Asp Gln Lys Arg Gly Lys Lys Gln Thr Ala Arg Glu Met Lys Lys  
 165 170 175  
  
 Lys Ile Leu Ala Glu Arg Arg Lys Pro Leu Asn Ile Asp His Leu Ser  
 180 185 190  
  
 Asp Asp Lys Leu Arg Asp Lys Ala Lys Glu Leu Trp Asp Thr Leu Tyr  
 195 200 205  
  
 Gln Leu Glu Thr Asp Lys Phe Glu Phe Gly Glu Lys Leu Lys Arg Gln  
 210 215 220  
  
 Lys Tyr Asp Ile Thr Thr Leu Arg Ser Arg Ile Asp Gln Ala Gln Lys  
 225 230 235 240

His Ser Lys Lys Ala Gly Ala Thr Ala Lys Gly Lys Val Gly Gly Arg  
                   245                  250                  255

Trp Lys

<210> 19

<211> 192

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (1)..(192)

<223> rat myosin light chain 1, atrial isoform

<220>

<223> Swiss prot identification number P17209

<300>

<303> Nucleic Acids Res.

<304> 18

<305> 6

<306> 1581-1586

<307> 1990-03-25

<400> 19

Pro Pro Lys Lys Pro Glu Pro Lys Lys Glu Thr Ala Lys Val Ala Ala  
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Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro Glu Pro Leu Arg Asp Ser  
                   20                  25                  30

Ala Phe Asp Pro Lys Ser Val Lys Ile Asp Phe Ser Ala Asp Gln Ile  
                   35                  40                  45

Glu Glu Phe Lys Glu Ala Phe Ser Leu Phe Asp Arg Thr Pro Thr Gly  
                   50                  55                  60

Glu Met Lys Ile Thr Tyr Gly Gln Cys Gly Asp Val Leu Arg Ala Leu  
                   65                  70                  75                  80

Gly Gln Asn Pro Thr Asn Ala Glu Val Leu Arg Val Leu Gly Lys Pro  
                   85                  90                  95

Lys Pro Glu Glu Met Asn Ser Lys Thr Leu Asp Phe Glu Met Phe Leu  
                   100                  105                  110

Pro Ile Leu Gln His Ile Ser Arg Asn Lys Glu Gln Gly Thr Tyr Glu  
                   115                  120                  125

Asp Phe Val Glu Gly Leu Arg Val Phe Asp Lys Glu Ser Asn Gly Thr  
                   130                  135                  140

Val Met Gly Ala Glu Leu Arg His Val Leu Ala Thr Leu Gly Glu Lys  
                   145                  150                  155                  160

Met Ser Glu Ala Glu Val Glu Gln Leu Leu Thr Gly Gln Glu Asp Ala  
                   165                  170                  175



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Asn	Gly	Cys	Ile	Asn	Tyr	Glu	Ala	Phe	Val	Lys	His	Val	Met	Ser	Gly
			180						185					190	